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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,839	08/21/2003	Yasumasa Tomita	241795US2	6168
22850 75	7590 08/18/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			LUU, THANH X	
	1940 DUKE STREET ALEXANDRIA, VA 22314			PAPER NUMBER
	,		2878	
			D. MD	-

DATE MAILED: 08/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/644,839	TOMITA, YASUMASA				
Office Action Summary	Examiner	Art Unit				
	Thanh X. Luu	2878				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	*					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	s action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under t	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application	Claim(s) <u>1-20</u> is/are pending in the application.					
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) <u>1-20</u> is/are rejected.					
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
	)⊠ The drawing(s) filed on <u>21 August 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the	•					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The valit of declaration is objected to by the L.	xammer. Note the attached Office	Action of form F 10-132.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) ☐ Acknowledgment is made of a claim for foreign</li> <li>a) ☐ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☐ Certified copies of the priority document</li> </ul>		)-(d) or (f).				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	• •					
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
AM-Land M. N						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO_413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 8/03,3/04,8/04.</li> </ol>	5)  Notice of Informal P 6)  Other:	Patent Application (PTO-152)				

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#### **DETAILED ACTION**

#### **Drawings**

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the image carrier, optical writing means, developing means, image transferring means and fixing means must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Specification

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1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 5, 7, 9, 11-13, 15, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishibe (U.S. Patent 6,535,317) in view of Yamawaki (U.S. Patent 6,756,583).

Regarding claims 1-3, 5, 7, 9, 11-13, 15, 17 and 19, Ishibe discloses (see Fig. 12) a multiple beam scanning device, comprising: a light source unit (1) comprising a plurality of light sources (light emitting points); a deflector (5) configured to deflect, in a main scanning direction, light beams issuing from the light sources; optics (9) configured to condense the light beams deflected by the deflector with an optical device (7) having power in the subscanning direction and an optical device (6) having power in a main scanning direction in such a manner so as to establish a preselected beam spot diameter; and adjusting means (not shown, see arrow 20) for providing, in a plane formed by scanning lines deflected by the deflector, one of the optical devices with alpha eccentricity about a center of an optical axis in a direction of the optical axis. Ishibe also discloses (see Figs.) image forming elements as claimed. Ishibe does not specifically disclose returning an optical path with at least one mirror to scan a subject

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surface. Yamawaki teaches (see Fig. 8) using mirrors to provide a more compact device. Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a mirror in the apparatus of Ishibe in view of Yamawaki to obtain a more compact apparatus.

4. Claims 4, 6, 8, 10, 14, 16, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishibe in view of Yamawaki and further in view of Shinohara et al. (U.S. Patent 5,963,240).

Regarding claims 4, 6, 8, 10, 14, 16, 18 and 20, Ishibe in view of Yamawaki disclose the claimed invention as set forth above. Ishibe and Yamawaki do not specifically disclose eccentric cams positioned at opposite ends of the optical device for adjusting. Shinohara et al. teach (see Fig. 11) eccentric cams (34) positioned at opposite ends of an optical device for adjusting it. Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide eccentric cams as claimed in the apparatus of Ishibe in view of Yamawaki and Shinohara et al. to conveniently and cost effectively provide adjustment as desired.

#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh X. Luu whose telephone number is 571-272-2441. The examiner can normally be reached on M-F 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thank X Luu Primary Examiner Art Unit 2878

08/2005